

Importing UDS on OpenNebula



Index

IMPORTING UDS ON OPENNEBULA.....	2
Download UDS Appliances	2
Import UDS Appliances on the virtual platform.....	3
Start UDS servers.....	9
About Virtual Cable.....	11

IMPORTING UDS ON OPENNEBULA

UDS Enterprise components are provided as Virtual Appliances. To upload these elements to the OpenNebula platform, carry out the following tasks:

Download UDS Appliances

Access your account at: <https://www.udsentEnterprise.com/en/accounts/login?next=/en/my-uds/>

Once inside, in the "**My Downloads**" section, select "**UDS Enterprise Appliances compatible with OpenNebula**" (.RAW format):

My Downloads		
Component	Format	Version
UDS Enterprise Appliances compatible with VMware vSphere / Cloud Director	OVA	3.0
UDS Enterprise Appliances compatible with Citrix Hypervisor / XCP-ng	OVA	3.0
UDS Enterprise Appliances compatible with Nutanix AHV	RAW / QCOW2	3.0
UDS Enterprise Appliances compatible with Microsoft Azure	VHD	3.0
UDS Enterprise Appliances compatible with Microsoft Hyper-V	VHDX	3.0
UDS Enterprise Appliances for OpenStack, OpenNebula, Proxmox...	RAW	3.0
UDS Enterprise Appliances for OpenNebula, OpenStack, oVirt, Proxmox...	QCOW2	3.0

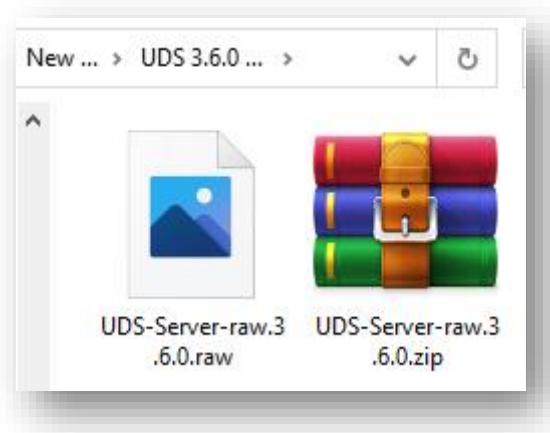
It will take you to a download repository where we'll find the UDS Appliances:

Index of /3.6/stable/raw

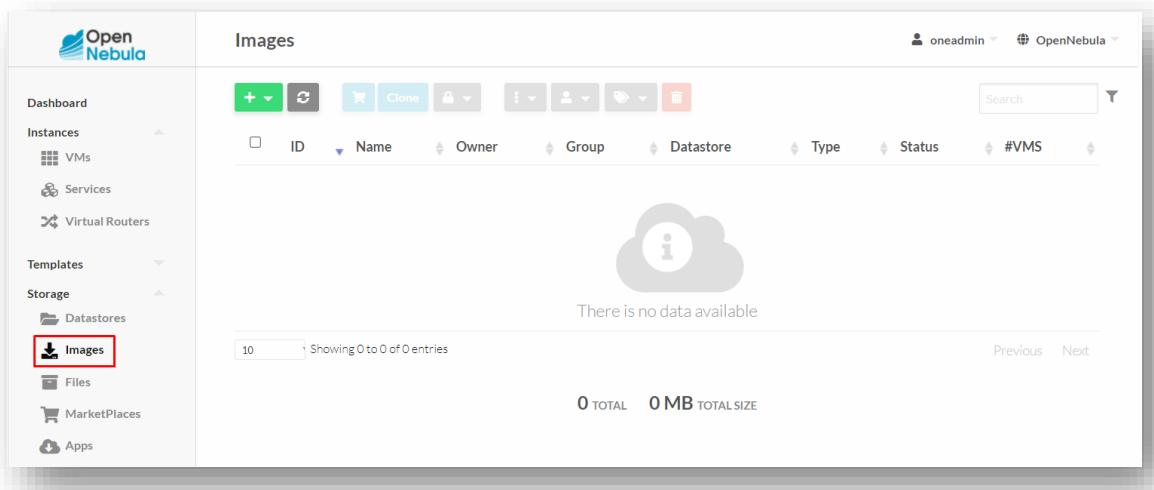
Name	Last modified	Size	[...]
 Parent Directory	-	-	-
 UDS-Dbserver-raw.3.6.0.zip	2023-07-10 10:45	538M	
 UDS-Server-raw.3.6.0.zip	2023-07-10 10:45	1.3G	
 UDS-Tunnel-raw.3.6.0.zip	2023-07-10 10:45	831M	

Import UDS Appliances on the virtual platform

Download the UDS Appliances and unzip them. See below an example with the UDS Server Appliance (**UDS-Server-XXzip**).



Access the OpenNebula environment and click on “**images**”.

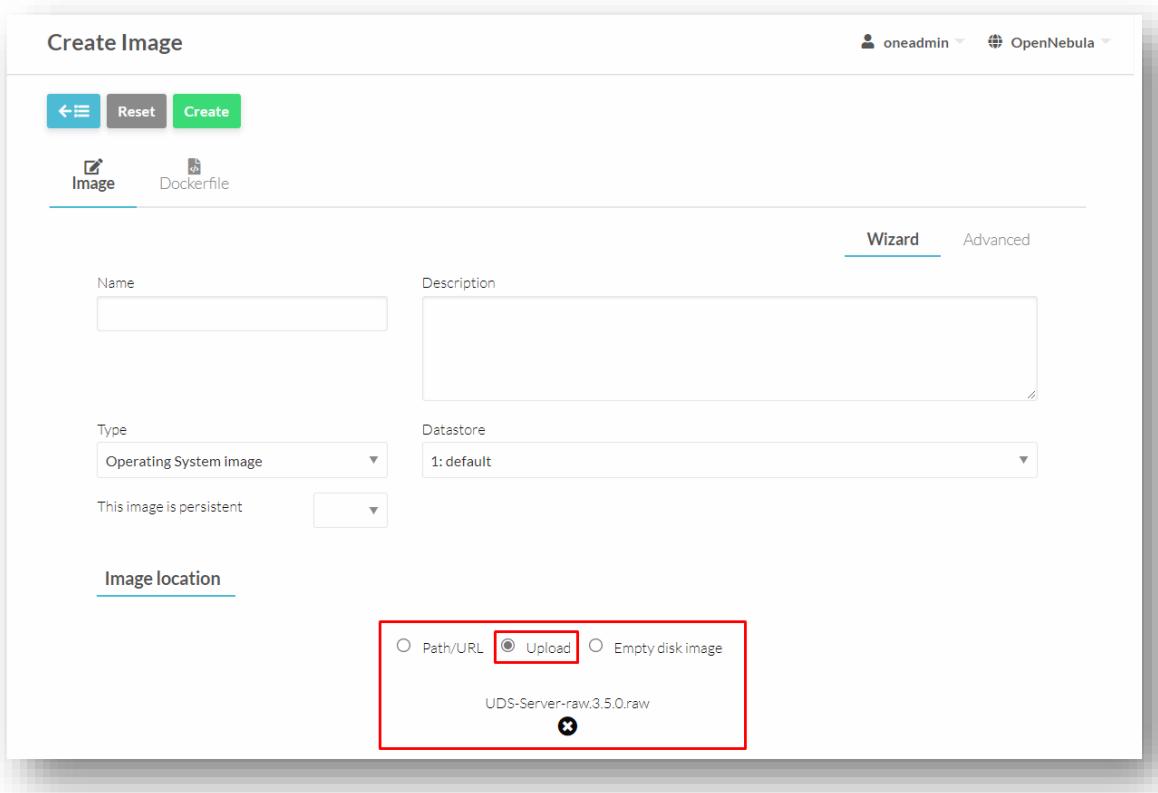


The screenshot shows the OpenNebula web interface with a sidebar on the left containing links like Dashboard, Instances, Templates, Storage, and a highlighted "Images" link. The main area is titled "Images" and shows a table with columns: ID, Name, Owner, Group, Datastore, Type, Status, and #VMs. A search bar and a "Previous" button are at the bottom. The table displays a single entry: "There is no data available". Below the table, it says "0 TOTAL 0 MB TOTAL SIZE".

Importing UDS on OpenNebulax

Create a new image. The wizard will ask you the name of the new Virtual Machine (VM) and the image of the UDS disk.

Select the disk image that you are going to create.



Create Image

oneadmin **OpenNebula**

Image **Dockerfile**

Wizard **Advanced**

Name:

Description:

Type: **Operating System image**

Datastore: **1: default**

This image is persistent:

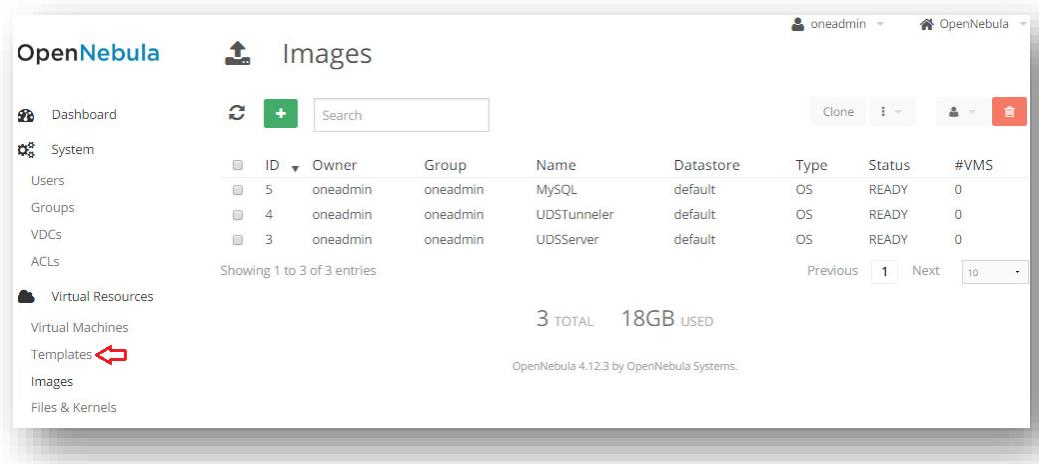
Image location

Path/URL Upload Empty disk image

UDS-Server-raw.3.5.0.raw

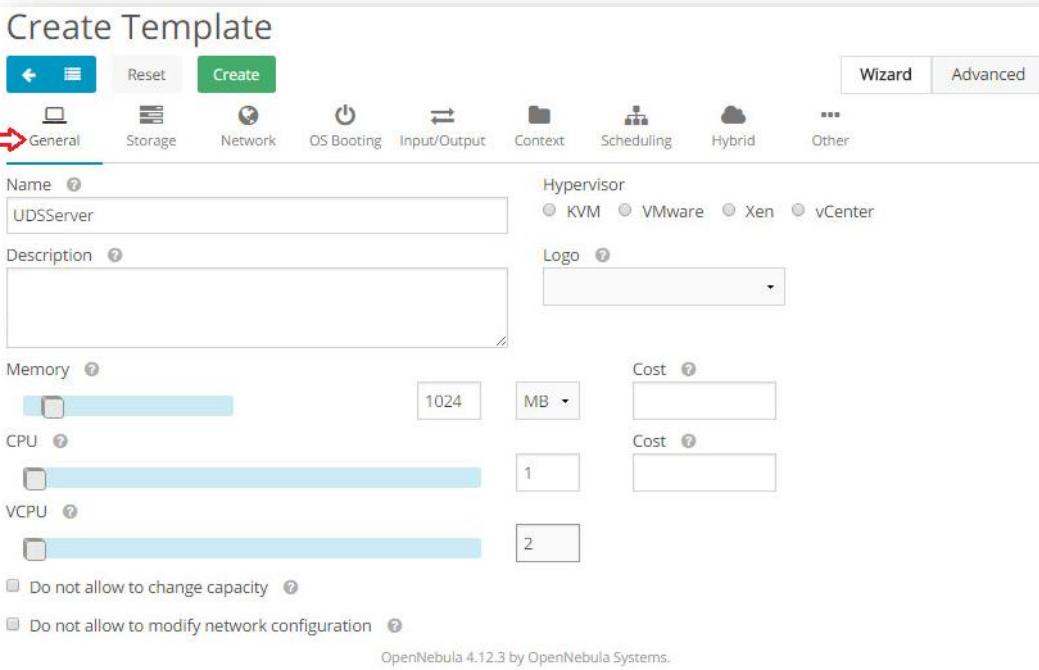
Once you have the images available, you need to create a "**Template**".

Importing UDS on OpenNebulax



The screenshot shows the OpenNebula web interface with the 'Images' tab selected. The left sidebar includes links for Dashboard, System (Users, Groups, VDCs, ACLs), Virtual Resources (Virtual Machines, Templates, Images, Files & Kernels), and a search bar. The main area displays a table of three entries: MySQL, UDSTunneler, and UDSServer, with columns for ID, Owner, Group, Name, Datastore, Type, Status, and #VMS. Below the table, it says '3 TOTAL 18GB USED'. The footer indicates 'OpenNebula 4.12.3 by OpenNebula Systems.'

To create the template, you will need to configure:



The screenshot shows the 'Create Template' wizard in the 'General' tab. It includes fields for Name (UDSServer), Description, Hypervisor selection (KVM), Logo, Memory (1024 MB), CPU (1), vCPU (2), and two checkboxes: 'Do not allow to change capacity' and 'Do not allow to modify network configuration'. The footer indicates 'OpenNebula 4.12.3 by OpenNebula Systems.'

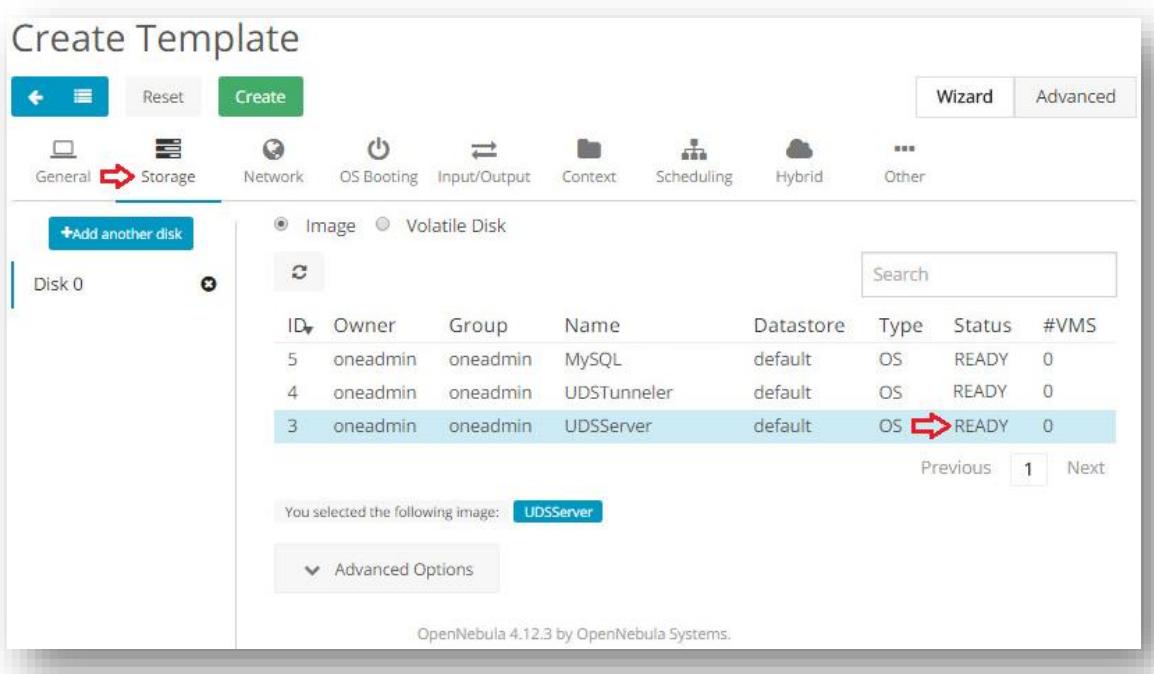
In the **General** tab you will have to indicate the name of the VM, the amount of RAM, number of CPUs and vCPUs.

For the different UDS Appliances, the configuration would be as follows:

MV	Memory (MB)	CPU	Storage
MySQL	1024	2	10
Server	2048	2	10
Tunnel	2048	2	15

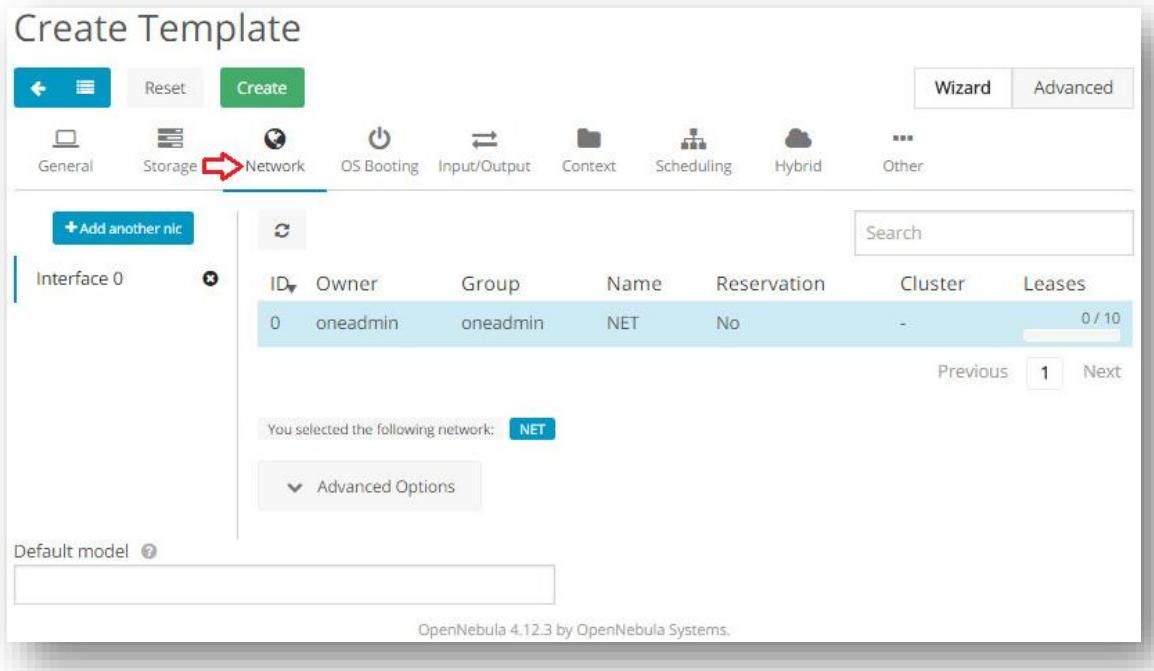
Importing UDS on OpenNebulax

In the **Storage** tab select the UDS disk image and check that it has the status "**Ready**".



ID	Owner	Group	Name	Datastore	Type	Status	#VMS
5	oneadmin	oneadmin	MySQL	default	OS	READY	0
4	oneadmin	oneadmin	UDSTunneler	default	OS	READY	0
3	oneadmin	oneadmin	UDSServer	default	OS	READY	0

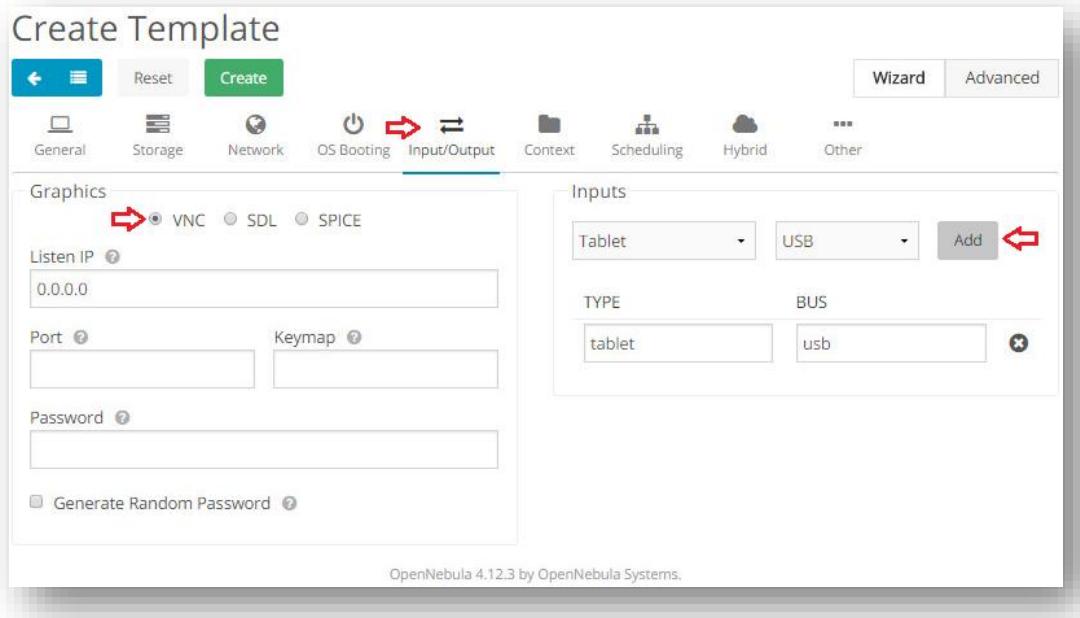
In the **Network** tab select the network interface.



ID	Owner	Group	Name	Reservation	Cluster	Leases
0	oneadmin	oneadmin	NET	No	-	0 / 10

Importing UDS on OpenNebulax

In the Input / Output tab configure the input and output devices. In this case select "**VNC**" output device and "**Tablet**" and "**USB**" input device.



Create Template

General Storage Network OS Booting **Input/Output** Context Scheduling Hybrid Other

Wizard Advanced

Graphics

VNC SDL SPICE

Listen IP: 0.0.0.0

Port: Keymap:

Password:

Generate Random Password

Inputs

Type: Tablet Bus: USB

Add

OpenNebula 4.12.3 by OpenNebula Systems.

Click on "**Create**" and you will have a valid "**Template**".



Create Template

General Storage Network OS Booting Input/Output Context Scheduling Hybrid Other

Wizard Advanced

Create

Once the template is created, click on "**Instantiate**".

Importing UDS on OpenNebulax



Templates

Search

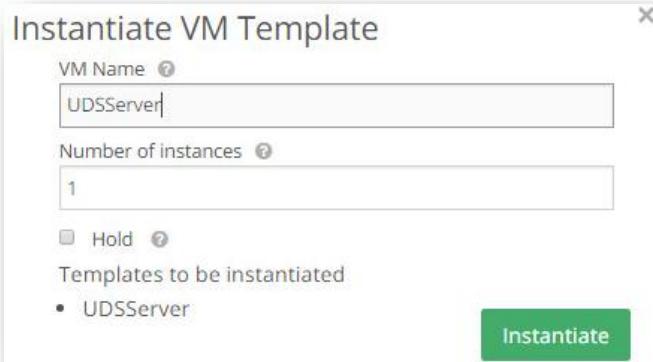
Update Instantiate Clone

ID	Owner	Group	Name
4	oneadmin	oneadmin	UDSServer

Showing 1 to 1 of 1 entries

OpenNebula 4.12.3 by OpenNebula Systems.

In the wizard, indicate the name and the number of instances to create.



Instantiate VM Template

VM Name

Number of instances

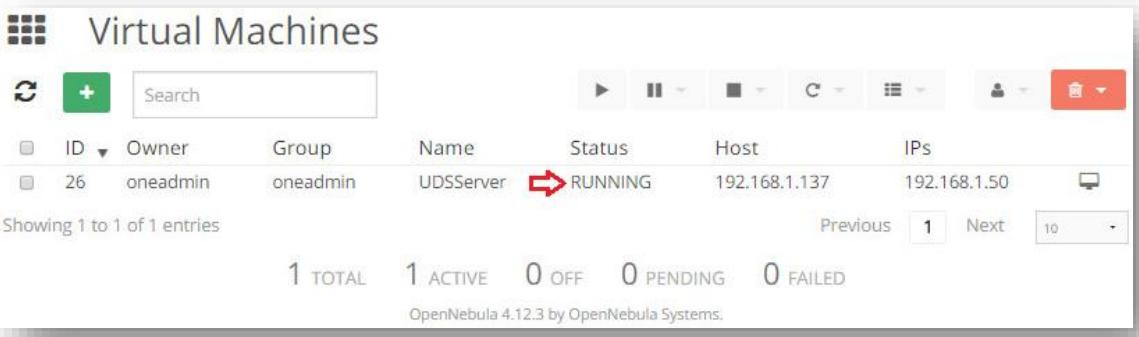
Hold

Templates to be instantiated

- UDSServer

Instantiate

Once the instance is created, the MV will appear in the "**Virtual Machines**" tab. Check that "**Running**" appears in the status.



Virtual Machines

Search

ID	Owner	Group	Name	Status	Host	IPs
26	oneadmin	oneadmin	UDSServer	RUNNING	192.168.1.137	192.168.1.50

Showing 1 to 1 of 1 entries

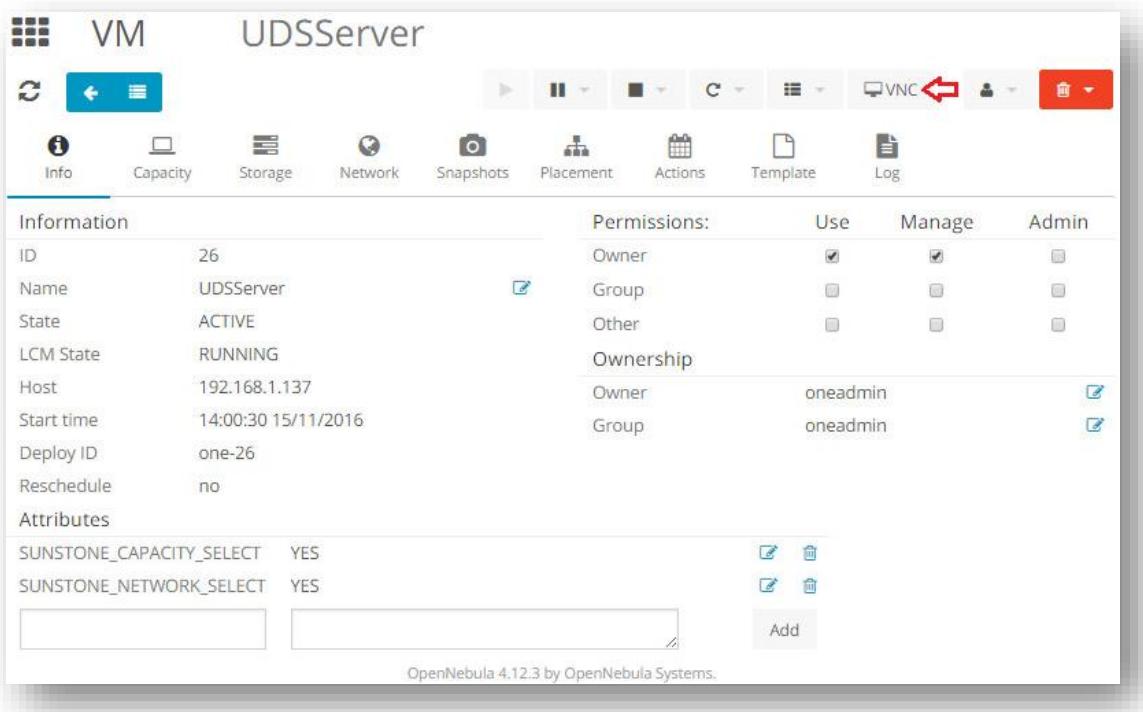
1 TOTAL 1 ACTIVE 0 OFF 0 PENDING 0 FAILED

OpenNebula 4.12.3 by OpenNebula Systems.

Start UDS servers

Once the creation of the new virtual machine and the import of the UDS Appliance disk is finished, start a console to begin with the server configuration.

Click on "VNC".



The screenshot shows the OpenNebula interface for managing virtual machines. The top navigation bar includes tabs for VM, Storage, Network, and Actions. The Actions tab is currently selected. Below the navigation is a toolbar with icons for Refresh, Back, Forward, Stop, Start, Suspend, Resume, and VNC (highlighted with a red arrow). The main content area displays the details for a VM named 'UDSServer'. It includes sections for Information, Permissions, Use, Manage, and Admin. Under Attributes, there are two entries: SUNSTONE_CAPACITY_SELECT set to YES and SUNSTONE_NETWORK_SELECT set to YES. At the bottom right of the table, there are 'Edit' and 'Delete' buttons, and a 'Add' button for new rows.

Information		Permissions:	Use	Manage	Admin
ID	26	Owner	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Name	UDSServer	Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State	ACTIVE	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LCM State	RUNNING	Ownership			
Host	192.168.1.137	Owner	oneadmin	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Start time	14:00:30 15/11/2016	Group	oneadmin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Deploy ID	one-26				
Reschedule	no				
Attributes					
SUNSTONE_CAPACITY_SELECT	YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
SUNSTONE_NETWORK_SELECT	YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
		<input type="button" value="Edit"/>	<input type="button" value="Delete"/>		
Add					

OpenNebula 4.12.3 by OpenNebula Systems.

Importing UDS on OpenNebulax

Access the console through "VNC" to proceed to configure the UDS VM (see [UDS Enterprise Installation, Administration and User Manual](#)).

```
UDS Enterprise Server v3.6.0 broker-360 tty1
broker-360 login: root (automatic login)

Linux broker-360 5.10.0-21-amd64 #1 SMP Debian 5.10.162-1 (2023-01-21) x86_64
UDS Enterprise Server v3.6.0

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UDS Enterprise comes with ABSOLUTELY NO WARRANTY,
to the extent permitted by applicable law.
Last login: Thu Mar 30 11:58:06 CEST 2023 on ttys1
UDS Enterprise broker CLI tool
Your appliance is currently unconfigured.
In order to configure it, you need to go through the setup process.
Since UDS 3.0, the configuration is done using a web browser.
UDS Enterprise setup launcher
Your appliance IP is 192.168.15.56. We are going to start the web setup process for you right now.
To configure your appliance, please go to this URL: http://192.168.15.56:9900
The setup process will be available until finished or the appliance is rebooted.
Your setup code is: PWk30vgb
[REDACTED]
Use this code to configure your appliance.
root@broker-360:~# _
```

NOTES:

- 1. If you want to use the UDS Tunnel component (which will provide you with WAN access and HTML5 access to the different services) repeat the same tasks previously described using the UDS-Tunnel.xxzip file.**
- 2. If you do not have your own database server to host the UDS Enterprise database, from the same repository you can download a virtual machine with a database server already prepared for this purpose. We remind you that this server is not part of UDS Enterprise, and therefore, it is not supported.**

About Virtual Cable

Virtual Cable is a company specialized in the **digital transformation** of the **workplace**. The company develops, supports and markets UDS Enterprise. Its team of experts has designed **VDI** solutions tailored to **each sector** to provide a unique user experience fully adapted to the needs of each user profile. Virtual Cable professionals have **more than 30 years of experience** in IT and software development and more than 15 in virtualization technologies. **Millions of Windows and Linux virtual desktops with UDS Enterprise are deployed all over the world every day.**